



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 4. Januar 2022

17 Uhr

Digitales Meeting mit

Zoom

Meeting ID: 699 9726 9389

Passwort: 81505154

Prof. Ana Caraiani
(Imperial College, London)

Reciprocity laws and torsion classes

Abstract:

The Langlands program is a vast network of conjectures that connect many areas of pure mathematics, such as number theory, representation theory, and harmonic analysis. At its heart lies reciprocity, the conjectural relationship between Galois representations and modular, or automorphic forms.

A famous instance of reciprocity is the modularity of elliptic curves over the rational numbers: this was the key to Wiles's proof of Fermat's last theorem. I will give an overview of some recent progress in the Langlands program, with a focus on new reciprocity laws over imaginary quadratic fields.

Vor dem Vortrag wird der Raum um 16:30 Uhr für Gespräche geöffnet.